

Searching for neutral Higgs bosons in non-standard channels

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In a variety of well motivated models, such as two Higgs Doublet Models (2HDMs) and supersymmetric extensions of the Standard Model (SSM), there are additional neutral Higgs bosons. The $\tau\tau$ channel is the preferred mode for discovering such scalars at the LHC. However many of these models can have a suppressed $\tau\tau$ coupling and hence alternative discovery modes are required. In this talk, I will discuss two possible modes for searching for such neutral scalars. I will discuss the prospects of observing such scalars in the $3b$ and $H \rightarrow ZA$ channels at the LHC and compare our projections to the present LHC limits.

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